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Principles Of Materials Science Engineering

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@article{osti_5104722, title = {Principles of materials science and engineering}, author = {Smith, W F}, abstractNote = {This text provides information about the structure, properties, and processing of engineering materials and their applications. Basic crystal structure analysis, polymeric materials, magnetic materials, semiconductors, and fatigue of metals are among the subjects covered.

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Everything is made of something. Materials scientists investigate how materials perform and why they sometimes fail. By understanding the structure of matter, from atomic scale to millimeter scale, they invent new ways to combine chemical elements into materials with unprecedented functional properties. Other branches of engineering rely heavily on materials scientists and engineers for the advanced materials used to design and manufacture products such as safer cars with better gas mileage, ...

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Materials science - Wikipedia

Symmetry, Structure, and Tensor Properties of Materials Students, professors, and researchers in the Department of Materials Science and Engineering explore the relationships between structure and properties in all classes of materials including metals, ceramics, electronic materials, and biomaterials.

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Materials Science Engineering - Wiley

Engineering is the use of scientific principles to design and build machines, structures, and other items, including bridges, tunnels, roads, vehicles, and buildings. The discipline of engineering encompasses a broad range of more specialized fields of engineering, each with a more specific emphasis on particular areas of applied mathematics, applied science, and types of application.

Engineering - Wikipedia

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Materials Science and Engineering (MAT SCI) < University ...

Students may elect to work for this degree in either the Materials Science or Aerospace and Mechanical Engineering departments. The specific courses that constitute an acceptable program must be approved in advance by the administering department.